

Arguments Against Rejections

Claims 1, 7, 14, 15, 18, 19, 21, 23-25, and 27 are presently amended. Claims 11-13, 16, 17, 30, 31, and 33 are cancelled without prejudice. Amended claims are supported by original specification, figures, and claims. Arguments are presented in light of amendments.

CLAIM REJECTION – 35 U.S.C. § 102

Claims 1-8, 10-13, and 18-37 are rejected under 35 U.S.C. 102(e) as being anticipated by Jackson (USPN 6,885,345).

The rejections are traversed.

Argument No. 1

In order to establish anticipation, it is incumbent upon the Examiner to identify in a single prior art reference disclosure of each and every element of the claimed invention, arranged as in the claim. *Lindemann Maschinenfabrik GmbH v. American Hoist & Derrick Co.*, 730 F.2d 1452, 1458, 221 U.S.P.Q. 481 (Fed. Cir. 1984).

Jackson describes and claims an actively reconfigurable antenna including a plurality of switches. In Jackson, switches are specifically limited to transistors and other electronic switch devices.

“An antenna includes a plurality of interconnected antenna pixels, each antenna pixel having one or more electrically tunable elements so as to vary and control one or more antenna pixel parameters, such as the radio-frequency (RF) tuning of the individual antenna pixel. A transistor, or other electronic switch, is provided for each of the tunable elements in each antenna pixel.” (Col. 1, Lines 56-60)

Transistors and other electronic switch devices enable ON/OFF activation by an electric current.

As such, Jackson neither describes nor claims switches enabled by a magnetic field, a thermal

field, or a vibration.

For this reason, it is respectfully submitted that the Section 102 rejections are misplaced, and reconsideration and withdrawal of the same are respectfully requested.

CLAIM REJECTION – 35 U.S.C. § 103

Claims 9 and 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jackson (USPN 6,885,345) in view of Yandrofski et al (USPN 5,589,845).

The rejections are traversed.

Argument No. 2

There is absolutely nothing in Jackson and Yandrofski suggesting the present invention.

Jackson describes and claims an actively reconfigurable antenna including a plurality of switches. In Jackson, switches are specifically limited to transistors and other electronic switch devices.

“An antenna includes a plurality of interconnected antenna pixels, each antenna pixel having one or more electrically tunable elements so as to vary and control one or more antenna pixel parameters, such as the radio-frequency (RF) tuning of the individual antenna pixel. A transistor, or other electronic switch, is provided for each of the tunable elements in each antenna pixel.” (*Col. 1, Lines 56-60*)

Transistors and other electronic switch devices enable ON/OFF activation by an electric current.

As such, Jackson neither describes nor claims nor suggests switches enabled by a magnetic field, a thermal field, or a vibration.

Yandrofski neither describes nor claims nor suggests switches enabled by a magnetic field, a thermal field, or a vibration.

For these reasons, it is respectfully submitted that the Section 103 rejections are

misplaced, and reconsideration and withdrawal of the same are respectfully requested.

Argument No. 3

Neither Jackson nor Yandrofski suggest the elements arranged to form a sheet-wise, bimorph composited structure in the following order: (1) a first outer layer composed of an ultra, high-strain polymer; (2) a first PVDF-TFE layer enabling a locally deformable structure; (3) a dielectric layer comprising a ferrotunable material and having embedded therein a matrix circuit comprising a plurality of secondary circuits; (4) a non-conducting layer composed of a polymer sheet; (5) a layer having therein a control circuitry in a matrix arrangement providing an electromagnetic structure in which frequency characteristics of the secondary circuits within the dielectric layer are varied by permittivity changes within the control circuitry so as to function as a frequency variable, voltage-controlled, microwave antenna array; (6) a second PVDF-TFE layer enabling a locally deformable structure; and (7) a second outer layer composed of an ultra, high-strain polymer.

For these reasons, it is respectfully submitted that the Section 103 rejections are misplaced, and reconsideration and withdrawal of the same are respectfully requested.

CLAIM REJECTION – 35 U.S.C. § 103

Claim 38-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jackson (USPN 6,885,345) in view of Chang et al (USPN 6,260,087).

The rejections are traversed.

Argument No. 4

There is absolutely nothing in Jackson and Chang suggesting the present invention.

Jackson describes and claims an actively reconfigurable antenna including a plurality of switches. In Jackson, switches are specifically limited to transistors and other electronic switch devices. Transistors and other electronic switch devices enable ON/OFF activation by an electric current. As such, Jackson neither describes nor claims nor suggests switches enabled by a magnetic field, a thermal field, or a vibration.

Chang neither describes nor claims nor suggests switches enabled by a magnetic field, a thermal field, or a vibration.

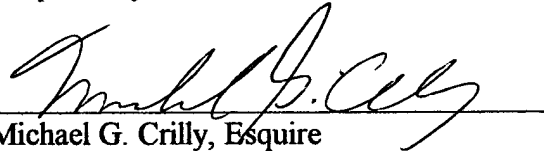
For the reasons stated herein, it is respectfully submitted that the Section 103 rejections are misplaced, and reconsideration and withdrawal of the same is respectfully requested.

Concluding Remarks

In view of the above, it is submitted that the amended claims are in condition for allowance. Reconsideration of the rejections is requested.

If, after reviewing the above, the Examiner believes any issues remain unresolved, the favor of an Examiner interview is requested and the Examiner is requested to contact the undersigned, by telephone, to schedule the same.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Michael G. Crilly", is written over a horizontal line.

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